

**Table C-1. Federal obligations for research and development, by character of work, and R&D plant:  
fiscal years 1951-97**

[Dollars in thousands]

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| Fiscal Years             | Total      | Total<br>research and<br>development | Research   |            | Development | R&D Plant |
|--------------------------|------------|--------------------------------------|------------|------------|-------------|-----------|
|                          |            |                                      | Basic      | Applied    |             |           |
| 1951 .....               | 1,851,571  | 1,521,527                            | NA         | NA         | NA          | 330,044   |
| 1952 .....               | 2,216,848  | 1,909,665                            | 120,945    | NA         | NA          | 307,183   |
| 1953 .....               | 2,167,456  | 1,919,543                            | 115,997    | NA         | NA          | 247,913   |
| 1954 .....               | 1,918,046  | 1,761,840                            | 116,033    | NA         | NA          | 156,206   |
| 1955 .....               | 2,251,894  | 2,044,593                            | 130,068    | NA         | NA          | 207,301   |
| 1956 .....               | 3,266,903  | 2,988,203                            | 206,441    | 645,506    | 2,136,256   | 278,700   |
| 1957 .....               | 4,389,237  | 3,932,001                            | 262,348    | 662,199    | 3,007,454   | 457,236   |
| 1958 .....               | 4,906,015  | 4,569,722                            | 334,543    | 744,264    | 3,490,915   | 336,293   |
| 1959 .....               | 7,122,610  | 6,693,510                            | 465,981    | 874,272    | 5,353,257   | 429,100   |
| 1960 .....               | 8,080,015  | 7,551,746                            | 590,374    | 1,282,135  | 5,679,237   | 528,269   |
| 1961 .....               | 9,607,023  | 9,058,623                            | 814,513    | 1,663,431  | 6,580,679   | 548,400   |
| 1962 .....               | 11,069,059 | 10,289,947                           | 986,314    | 2,018,481  | 7,285,152   | 779,112   |
| 1963 .....               | 13,662,879 | 12,494,611                           | 1,151,753  | 2,356,150  | 8,986,708   | 1,168,268 |
| 1964 .....               | 15,323,870 | 14,225,354                           | 1,303,000  | 2,571,452  | 10,350,902  | 1,098,516 |
| 1965 .....               | 15,745,852 | 14,614,249                           | 1,435,469  | 2,811,761  | 10,367,019  | 1,131,603 |
| 1966 .....               | 16,178,640 | 15,320,334                           | 1,579,181  | 3,081,066  | 10,660,087  | 858,306   |
| 1967 .....               | 17,149,186 | 16,529,099                           | 1,845,847  | 2,785,543  | 11,897,709  | 620,087   |
| 1968 .....               | 16,525,038 | 15,921,208                           | 1,840,562  | 2,940,500  | 11,140,146  | 603,830   |
| 1969 .....               | 16,309,900 | 15,640,888                           | 1,944,773  | 2,700,117  | 10,995,998  | 669,012   |
| 1970 .....               | 15,863,385 | 15,338,937                           | 1,925,908  | 2,974,890  | 10,438,139  | 524,448   |
| 1971 .....               | 16,153,756 | 15,542,512                           | 1,980,141  | 3,143,030  | 10,419,341  | 611,244   |
| 1972 .....               | 17,097,951 | 16,495,895                           | 2,186,937  | 3,360,759  | 10,948,199  | 602,056   |
| 1973 .....               | 17,574,486 | 16,800,153                           | 2,232,006  | 3,349,423  | 11,218,724  | 774,333   |
| 1974 .....               | 18,176,457 | 17,410,128                           | 2,387,681  | 3,787,559  | 11,234,888  | 766,329   |
| 1975 .....               | 19,859,548 | 19,038,818                           | 2,588,427  | 4,141,281  | 12,309,110  | 820,730   |
| 1976 .....               | 21,616,382 | 20,779,658                           | 2,767,454  | 4,851,878  | 13,160,326  | 836,724   |
| 1977 .....               | 24,817,577 | 23,450,377                           | 3,258,640  | 5,255,475  | 14,936,262  | 1,367,200 |
| 1978 .....               | 27,140,849 | 25,845,137                           | 3,698,604  | 5,908,154  | 16,238,379  | 1,295,712 |
| 1979 .....               | 29,620,597 | 28,145,142                           | 4,192,665  | 6,342,340  | 17,610,137  | 1,475,455 |
| 1980 .....               | 31,386,095 | 29,830,432                           | 4,674,156  | 6,923,222  | 18,233,054  | 1,555,663 |
| 1981 .....               | 34,589,634 | 33,103,924                           | 5,041,295  | 7,171,485  | 20,891,144  | 1,485,710 |
| 1982 .....               | 37,822,363 | 36,432,589                           | 5,481,605  | 7,540,580  | 23,410,404  | 1,389,774 |
| 1983 .....               | 40,009,032 | 38,711,537                           | 6,260,131  | 7,993,394  | 24,458,012  | 1,297,495 |
| 1984 .....               | 44,012,149 | 42,224,865                           | 7,067,359  | 7,911,414  | 27,246,092  | 1,787,284 |
| 1985 .....               | 50,180,369 | 48,359,565                           | 7,818,682  | 8,314,739  | 32,226,144  | 1,820,804 |
| 1986 .....               | 52,951,181 | 51,412,364                           | 8,153,076  | 8,349,123  | 34,910,165  | 1,538,817 |
| 1987 .....               | 57,099,656 | 55,253,693                           | 8,942,425  | 8,998,096  | 37,313,172  | 1,845,963 |
| 1988 .....               | 58,826,512 | 56,769,425                           | 9,473,618  | 9,176,527  | 38,119,280  | 2,057,087 |
| 1989 .....               | 63,571,605 | 61,406,484                           | 10,602,011 | 10,163,520 | 40,640,953  | 2,165,121 |
| 1990 .....               | 65,831,189 | 63,559,471                           | 11,285,593 | 10,336,771 | 41,937,107  | 2,271,718 |
| 1991 .....               | 64,147,951 | 61,295,152                           | 12,170,794 | 11,797,583 | 37,326,775  | 2,852,799 |
| 1992 .....               | 68,577,184 | 65,592,590                           | 12,489,864 | 12,000,734 | 41,101,992  | 2,984,594 |
| 1993 .....               | 70,414,697 | 67,314,025                           | 13,399,121 | 13,491,376 | 40,423,528  | 3,100,672 |
| 1994 .....               | 69,426,972 | 67,255,776                           | 13,552,858 | 13,887,494 | 39,815,424  | 2,171,196 |
| 1995 .....               | 71,011,759 | 68,754,875                           | 13,895,493 | 14,677,941 | 40,181,441  | 2,256,884 |
| 1996 (Preliminary) ..... | 71,047,756 | 69,076,929                           | 14,482,056 | 14,095,711 | 40,499,162  | 1,970,827 |
| 1997 (Preliminary) ..... | 70,148,683 | 68,063,742                           | 14,732,254 | 14,441,282 | 38,890,206  | 2,084,941 |

**KEY:** NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

**SOURCE:** National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-2. Summary of Federal funds for research and development and for R&D plant:  
fiscal years 1995, 1996, and 1997**

[In millions of dollars and percentages]

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| Item   | 1995       | Preliminary |                           |            |                           |
|--|------------|-------------|---------------------------|------------|---------------------------|
|  |            | 1996        | Percentage change 1995-96 | 1997       | Percentage change 1996-97 |
| Total outlays for research and development and for R&D plant .....     | \$68,410.0 | \$69,180.0  | 1.1                       | \$70,118.4 | 1.4                       |
| Research and development .....   | 66,374.6   | 66,876.9    | .8                        | 67,691.5   | 1.2                       |
| R&D plant .....  | 2,035.4    | 2,303.1     | 13.2                      | 2,426.9    | 5.4                       |
| Total obligations for research and development and for R&D plant ..... | 71,011.8   | 71,047.8    | .1                        | 70,148.7   | -1.3                      |
| Research and development, total .....                                  | 68,754.9   | 69,076.9    | .5                        | 68,063.7   | -1.5                      |
| By performers:   |            |             |                           |            |                           |
| Intramural <sup>1</sup> .....  | 17,342.7   | 16,897.0    | -2.6                      | 16,403.7   | -2.9                      |
| Industrial firms .....   | 30,468.7   | 31,267.6    | 2.6                       | 30,712.6   | -1.8                      |
| FFRDCs administered by industrial firms .....                          | 1,203.9    | 1,231.3     | 2.3                       | 1,339.5    | 8.8                       |
| Universities and colleges .....  | 11,933.0   | 12,251.2    | 2.7                       | 12,362.2   | .9                        |
| FFRDCs administered by universities and colleges .....                 | 3,574.3    | 3,302.2     | -7.6                      | 3,230.6    | -2.2                      |
| Other nonprofit institutions .....                                     | 2,806.5    | 2,866.6     | 2.1                       | 2,883.6    | .6                        |
| FFRDCs administered by nonprofit institutions .....                    | 831.4      | 721.2       | -13.3                     | 644.1      | -10.7                     |
| State and local governments .....                                      | 316.5      | 273.8       | -13.5                     | 281.6      | 2.9                       |
| Foreign .....  | 277.8      | 266.0       | -4.2                      | 205.9      | -22.6                     |
| Research, total .....  | 28,573.4   | 28,577.8    | *                         | 29,173.5   | 2.1                       |
| By performers:   |            |             |                           |            |                           |
| Intramural <sup>1</sup> .....  | 7,787.8    | 7,404.3     | -4.9                      | 7,696.1    | 3.9                       |
| Industrial firms .....   | 4,727.9    | 4,672.8     | -1.2                      | 4,799.7    | 2.7                       |
| FFRDCs administered by industrial firms .....                          | 818.0      | 877.7       | 7.3                       | 1,005.5    | 14.6                      |
| Universities and colleges .....  | 10,371.6   | 10,919.9    | 5.3                       | 10,823.3   | -.9                       |
| FFRDCs administered by universities and colleges .....                 | 2,235.6    | 2,085.7     | -6.7                      | 2,131.1    | 2.2                       |
| Other nonprofit institutions .....                                     | 2,056.1    | 2,101.0     | 2.2                       | 2,199.9    | 4.7                       |
| FFRDCs administered by nonprofit institutions .....                    | 210.1      | 183.7       | -12.6                     | 191.6      | 4.3                       |
| State and local governments .....                                      | 221.4      | 198.9       | -10.2                     | 207.0      | 4.1                       |
| Foreign .....  | 144.8      | 133.9       | -7.6                      | 119.3      | -10.9                     |
| By fields of science:  |            |             |                           |            |                           |
| Life sciences .....  | 11,869.4   | 12,150.1    | 2.4                       | 12,299.6   | 1.2                       |
| Psychology .....   | 620.8      | 641.3       | 3.3                       | 650.2      | 1.4                       |
| Physical sciences .....  | 4,281.6    | 4,322.4     | 1.0                       | 4,398.2    | 1.8                       |
| Environmental sciences .....   | 2,947.4    | 2,924.1     | -.8                       | 2,955.1    | 1.1                       |
| Mathematics and computer sciences .....                                | 1,530.9    | 1,508.3     | -1.5                      | 1,545.8    | 2.5                       |
| Engineering .....  | 5,740.1    | 5,508.5     | -4.0                      | 5,707.7    | 3.6                       |
| Social sciences .....  | 681.5      | 669.4       | -1.8                      | 727.6      | 8.7                       |
| Other sciences, n.e.c. ....  | 901.8      | 853.5       | -5.4                      | 889.3      | 4.2                       |
| Basic research, total .....  | 13,895.5   | 14,482.1    | 4.2                       | 14,732.3   | 1.7                       |
| By performers:   |            |             |                           |            |                           |
| Intramural <sup>1</sup> .....  | 2,712.9    | 2,413.9     | -11.0                     | 2,667.8    | 10.5                      |
| Industrial firms .....   | 1,221.2    | 1,225.7     | .4                        | 1,279.1    | 4.4                       |
| FFRDCs administered by industrial firms .....                          | 239.1      | 339.9       | 42.2                      | 368.3      | 8.3                       |
| Universities and colleges .....  | 6,951.3    | 7,753.6     | 11.5                      | 7,405.5    | -4.5                      |
| FFRDCs administered by universities and colleges .....                 | 1,438.3    | 1,503.5     | 4.5                       | 1,519.7    | 1.1                       |
| Other nonprofit institutions .....                                     | 1,134.2    | 1,062.1     | -6.4                      | 1,270.2    | 19.6                      |
| FFRDCs administered by nonprofit institutions .....                    | 75.2       | 71.6        | -4.8                      | 82.9       | 15.8                      |
| State and local governments .....                                      | 78.7       | 70.4        | -10.6                     | 92.3       | 31.2                      |
| Foreign .....  | 44.5       | 41.3        | -7.2                      | 46.5       | 12.6                      |
| By fields of science:  |            |             |                           |            |                           |
| Life sciences .....  | 6,645.3    | 6,896.1     | 3.8                       | 7,043.4    | 2.1                       |
| Psychology .....   | 275.5      | 288.6       | 4.7                       | 294.4      | 2.0                       |
| Physical sciences .....  | 2,863.0    | 3,160.7     | 10.4                      | 3,185.6    | .8                        |
| Environmental sciences .....   | 1,473.2    | 1,512.7     | 2.7                       | 1,496.0    | -1.1                      |
| Mathematics and computer sciences .....                                | 554.0      | 597.8       | 7.9                       | 604.3      | 1.1                       |
| Engineering .....  | 1,468.1    | 1,392.5     | -5.1                      | 1,453.2    | 4.4                       |
| Social sciences .....  | 209.5      | 214.5       | 2.4                       | 226.7      | 5.7                       |
| Other sciences, n.e.c. ....  | 406.9      | 419.0       | 3.0                       | 428.5      | 2.3                       |

See explanatory information, if any, and SOURCE at end of table.

**Table C-2. Summary of Federal funds for research and development and for R&D plant:  
fiscal years 1995, 1996, and 1997**

[In millions of dollars and percentages]

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| Item   | 1995       | Preliminary |                           |            |                           |
|--|------------|-------------|---------------------------|------------|---------------------------|
|  |            | 1996        | Percentage change 1995-96 | 1997       | Percentage change 1996-97 |
| Applied research, total .....                          | \$14,677.9 | \$14,095.7  | -4.0                      | \$14,441.3 | 2.5                       |
| By performers:   |            |             |                           |            |                           |
| Intramural <sup>1</sup> .....                          | 5,074.9    | 4,990.4     | -1.7                      | 5,028.3    | .8                        |
| Industrial firms .....                                 | 3,506.7    | 3,447.1     | -1.7                      | 3,520.6    | 2.1                       |
| FFRDCs administered by industrial firms .....          | 578.9      | 537.7       | -7.1                      | 637.2      | 18.5                      |
| Universities and colleges .....                        | 3,420.3    | 3,166.3     | -7.4                      | 3,417.8    | 7.9                       |
| FFRDCs administered by universities and colleges ..... | 797.3      | 582.2       | -27.0                     | 611.4      | 5.0                       |
| Other nonprofit institutions .....                     | 921.9      | 1,038.9     | 12.7                      | 929.7      | -10.5                     |
| FFRDCs administered by nonprofit institutions .....    | 134.9      | 112.1       | -16.9                     | 108.7      | -3.0                      |
| State and local governments .....                      | 142.7      | 128.5       | -9.9                      | 114.7      | -10.8                     |
| Foreign .....  | 100.3      | 92.6        | -7.7                      | 72.8       | -21.3                     |
| By fields of science:                                  |            |             |                           |            |                           |
| Life sciences .....                                    | 5,224.1    | 5,254.0     | .6                        | 5,256.2    | *                         |
| Psychology .....                                       | 345.2      | 352.7       | 2.2                       | 355.9      | .9                        |
| Physical sciences .....                                | 1,418.5    | 1,161.7     | -18.1                     | 1,212.6    | 4.4                       |
| Environmental sciences .....                           | 1,474.2    | 1,411.4     | -4.3                      | 1,459.1    | 3.4                       |
| Mathematics and computer sciences .....                | 976.9      | 910.5       | -6.8                      | 941.5      | 3.4                       |
| Engineering .....                                      | 4,272.0    | 4,116.0     | -3.7                      | 4,254.5    | 3.4                       |
| Social sciences .....                                  | 472.0      | 454.8       | -3.6                      | 500.9      | 10.1                      |
| Other sciences, n.e.c. ....                            | 494.9      | 434.5       | -12.2                     | 460.7      | 6.0                       |
| Development, total .....                               | 40,181.4   | 40,499.2    | .8                        | 38,890.2   | -4.0                      |
| By performers:   |            |             |                           |            |                           |
| Intramural <sup>1</sup> .....                          | 9,554.9    | 9,492.8     | -.7                       | 8,707.6    | -8.3                      |
| Industrial firms .....                                 | 25,740.7   | 26,594.8    | 3.3                       | 25,912.9   | -2.6                      |
| FFRDCs administered by industrial firms .....          | 385.9      | 353.6       | -8.4                      | 334.0      | -5.5                      |
| Universities and colleges .....                        | 1,561.4    | 1,331.3     | -14.7                     | 1,538.9    | 15.6                      |
| FFRDCs administered by universities and colleges ..... | 1,338.7    | 1,216.5     | -9.1                      | 1,099.5    | -9.6                      |
| Other nonprofit institutions .....                     | 750.4      | 765.6       | 2.0                       | 683.7      | -10.7                     |
| FFRDCs administered by nonprofit institutions .....    | 621.3      | 537.5       | -13.5                     | 452.5      | -15.8                     |
| State and local governments .....                      | 95.1       | 74.9        | -21.3                     | 74.6       | -.4                       |
| Foreign .....  | 133.0      | 132.2       | -.6                       | 86.5       | -34.5                     |
| R&D plant, total .....                                 | 2,256.9    | 1,970.8     | -12.7                     | 2,084.9    | 5.8                       |
| By performers supported:                               |            |             |                           |            |                           |
| Intramural .....                                       | 482.6      | 571.1       | 18.3                      | 723.7      | 26.7                      |
| Industrial firms .....                                 | 696.6      | 415.0       | -40.4                     | 407.5      | -1.8                      |
| FFRDCs administered by industrial firms .....          | 95.1       | 77.1        | -19.0                     | 83.3       | 8.0                       |
| Universities and colleges .....                        | 323.8      | 279.6       | -13.7                     | 157.4      | -43.7                     |
| FFRDCs administered by universities and colleges ..... | 543.9      | 536.2       | -1.4                      | 642.1      | 19.7                      |
| Other nonprofit institutions .....                     | 25.6       | 21.7        | -15.1                     | 12.2       | -43.7                     |
| FFRDCs administered by nonprofit institutions .....    | 62.6       | 69.7        | 11.3                      | 58.2       | -16.5                     |
| State and local governments .....                      | .5         | .5          | .0                        | .5         | .0                        |
| Foreign .....  | 26.1       | .0          | -100.0                    | .0         | .0                        |

<sup>1</sup> Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

**NOTE:** Because of rounding, detail may not add to totals. Percentages are computed using dollars in thousands.

**KEY:** \* = Percentage less than .05%  
FFRDCs = Federally funded research and development centers  
n.e.c. = Not elsewhere classified

**SOURCE:** National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997

**Table C-3. Federal funds for research and development and for R&D plant, by agency:  
fiscal years 1995, 1996, and 1997**

[Dollars in millions]

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| Agency and subdivision   | Obligations |             |          | Outlays  |             |          |
|--|-------------|-------------|----------|----------|-------------|----------|
|  | 1995        | Preliminary |          | 1995     | Preliminary |          |
|  |             | 1996        | 1997     |          | 1996        | 1997     |
| Total, all agencies .....  | 71,011.8    | 71,047.8    | 70,148.7 | 68,410.0 | 69,180.0    | 70,118.4 |
| Departments:   |             |             |          |          |             |          |
| Department of Agriculture, total .....   | 1,523.1     | 1,501.8     | 1,493.8  | 1,503.8  | 1,512.2     | 1,507.1  |
| Agricultural Marketing Service .....   | 4.8         | 4.9         | 4.9      | 5.0      | 4.9         | 4.9      |
| Agricultural Research Service <sup>1</sup> .....                                 | 751.0       | 759.3       | 819.9    | 758.4    | 768.2       | 790.4    |
| Animal & Plant Health Inspection Service .....                                   | 19.1        | 21.2        | 20.6     | 19.1     | 21.2        | 20.6     |
| Cooperative State Research, Education, &<br>Extension Service <sup>2</sup> ..... | 489.0       | 473.2       | 402.2    | 463.9    | 474.8       | 445.2    |
| Economic Research Service .....  | 53.8        | 53.1        | 54.9     | 52.0     | 53.2        | 54.7     |
| Foreign Agricultural Service <sup>3</sup> .....                                  | .5          | 1.4         | 1.4      | .5       | 1.4         | 1.4      |
| Forest Service .....   | 197.8       | 180.5       | 181.8    | 197.8    | 180.5       | 181.8    |
| Grain Inspection Packers & Stockyards Admin <sup>4</sup> .....                   | 1.5         | 2.8         | 2.8      | 1.5      | 2.8         | 2.8      |
| National Agricultural Statistics Service .....                                   | 4.0         | 3.9         | 3.9      | 4.2      | 3.8         | 3.9      |
| Rural Business-Cooperative Service <sup>5</sup> .....                            | 1.6         | 1.4         | 1.4      | 1.6      | 1.4         | 1.4      |
| Department of Commerce, total .....  | 1,213.7     | 1,252.4     | 1,201.4  | 886.4    | 957.7       | 1,040.3  |
| Bureau of the Census .....   | 4.9         | 7.1         | 7.1      | 5.1      | 7.4         | 7.4      |
| Economic Development Administration .....  | .5          | .5          | 1.5      | 1.0      | .5          | 1.5      |
| National Institute of Standards & Technology .....                               | 640.5       | 711.2       | 647.0    | 350.4    | 416.2       | 485.6    |
| National Oceanic & Atmospheric Administration .....                              | 561.4       | 529.1       | 541.1    | 523.6    | 529.1       | 541.1    |
| Nat'l Telecommunications & Information Admin .....                               | 6.4         | 4.5         | 4.7      | 6.4      | 4.5         | 4.7      |
| Office of the Secretary .....  | -           | -           | .0       | -        | .0          | .0       |
| Department of Defense, total .....   | 34,427.3    | 34,368.8    | 33,004.3 | 33,712.5 | 33,499.0    | 32,870.5 |
| Department of the Army, total .....  | 5,424.7     | 4,838.5     | 4,377.7  | 5,137.3  | 5,112.4     | 4,581.2  |
| Department of the Army, Civil Functions <sup>6</sup> .....                       | 56.3        | 29.4        | 36.2     | 56.3     | 29.4        | 36.2     |
| Department of the Army, Military Functions .....                                 | 5,368.5     | 4,809.1     | 4,341.5  | 5,081.0  | 5,083.0     | 4,545.0  |
| Department of the Navy .....   | 8,974.5     | 8,812.3     | 7,593.6  | 9,454.1  | 8,571.5     | 7,952.5  |
| Department of the Air Force .....  | 11,835.7    | 12,123.6    | 13,379.7 | 12,051.8 | 11,809.3    | 12,987.5 |
| Defense Agencies, total .....  | 7,939.6     | 8,343.6     | 7,380.3  | 6,822.7  | 7,727.9     | 7,075.4  |
| Ballistic Missile Defense Organization .....                                     | 2,400.7     | 2,937.3     | 2,568.5  | 2,423.6  | 2,991.7     | 2,628.2  |
| Defense Advanced Research Projects Agency <sup>7</sup> .....                     | 2,503.8     | 2,255.0     | 2,185.7  | 2,391.4  | 2,324.2     | 2,235.9  |
| Defense Information Systems Agency .....   | 79.0        | 56.3        | 66.6     | 72.0     | 60.0        | 54.2     |
| Defense Logistics Agency .....   | 33.8        | 35.1        | 38.8     | 27.6     | 41.2        | 44.0     |
| Defense Mapping Agency .....   | 78.3        | 58.9        | 95.2     | 36.2     | 65.4        | 88.2     |
| Defense Nuclear Agency .....   | 243.9       | 194.8       | 224.4    | 320.4    | 270.3       | 244.8    |
| Joint Staff .....  | 4.2         | 12.5        | 38.8     | 4.2      | 12.5        | 38.8     |
| Special Operations Command .....   | 264.6       | 156.9       | 125.6    | 219.9    | 278.5       | 144.6    |
| Washington Headquarters Services <sup>8</sup> .....                              | 2,331.4     | 2,636.8     | 2,036.7  | 1,327.5  | 1,684.1     | 1,596.7  |
| Operational Test & Evaluation, Director .....                                    | 21.7        | 23.0        | 22.0     | 12.4     | 30.8        | 21.8     |
| Test & Evaluation, Deputy Under Secretary of<br>Defense .....                    | 231.0       | 227.8       | 251.0    | 234.3    | 247.1       | 252.0    |
| Department of Education .....  | 179.4       | 181.7       | 188.1    | 180.6    | 181.0       | 170.2    |
| Department of Energy .....   | 6,890.0     | 6,431.5     | 6,721.1  | 7,016.3  | 6,728.5     | 6,879.3  |
| Department of Health & Human Services, total .....                               | 11,711.0    | 12,218.0    | 12,614.2 | 11,245.2 | 11,321.4    | 12,318.1 |
| Administration on Aging .....  | 20.7        | 3.7         | 3.2      | 20.7     | 2.9         | 2.9      |
| Administration for Children & Families .....                                     | 12.0        | 9.0         | 19.0     | 12.0     | 9.0         | 19.0     |
| Agency for Health Care Policy & Research .....                                   | 135.3       | 65.2        | 84.0     | 133.0    | 124.0       | 85.0     |
| Centers for Disease Control & Prevention .....                                   | 317.4       | 323.2       | 361.2    | 317.4    | 323.4       | 361.2    |
| Food & Drug Administration .....   | 175.8       | 182.6       | 178.8    | 147.9    | 154.6       | 146.1    |
| Health Care Financing Administration .....                                       | 74.5        | 54.5        | 55.3     | 72.9     | 70.1        | 59.0     |
| Health Resources & Services Administration .....                                 | 14.8        | 14.0        | 12.7     | 14.4     | 13.7        | 12.7     |
| National Institutes of Health <sup>9</sup> .....                                 | 10,930.6    | 11,556.3    | 11,890.5 | 10,511.5 | 10,616.4    | 11,625.8 |
| Office of the Assistant Secretary for Health .....                               | .3          | .5          | .6       | .6       | .5          | .5       |
| Office of the Secretary .....  | 9.1         | 9.0         | 9.0      | 3.5      | 7.0         | 6.0      |
| Social Security Administration <sup>10</sup> .....                               | 20.4        | .0          | .0       | 11.3     | .0          | .0       |

See explanatory information, if any, and SOURCE at end of table.

**Table C-3. Federal funds for research and development and for R&D plant, by agency:  
fiscal years 1995, 1996, and 1997**

[Dollars in millions]

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| Agency and subdivision                             | Obligations |             |       | Outlays |             |       |
|--|-------------|-------------|-------|---------|-------------|-------|
|  | 1995        | Preliminary |       | 1995    | Preliminary |       |
|  |             | 1996        | 1997  |         | 1996        | 1997  |
| Department of Housing & Urban Development .....    | 41.8        | 35.0        | 45.5  | 38.0    | 34.8        | 39.1  |
| Department of the Interior, total .....            | 568.3       | 567.5       | 580.6 | 558.8   | 570.0       | 591.4 |
| Bureau of Reclamation .....                        | 8.0         | 6.0         | 7.6   | 8.0     | 6.0         | 7.6   |
| Geological Survey <sup>11</sup> .....              | 367.4       | 519.9       | 530.6 | 359.3   | 522.4       | 541.4 |
| Minerals Management Service .....                  | 21.0        | 21.8        | 21.6  | 20.8    | 21.7        | 21.6  |
| National Biological Service <sup>12 11</sup> ..... | 152.1       | .0          | .0    | 151.0   | .0          | .0    |
| National Park Service <sup>12</sup> .....          | 19.7        | 19.8        | 20.8  | 19.7    | 19.8        | 20.8  |
| Office of the Secretary .....                      | -           | -           | .0    | -       | -           | .0    |
| Department of Justice, total .....                 | 57.9        | 80.9        | 93.7  | 49.0    | 76.9        | 93.8  |
| Bureau of Prisons .....                            | 5.7         | 4.7         | 4.7   | 5.7     | 4.7         | 4.7   |
| Drug Enforcement Administration .....              | .4          | 1.2         | .5    | .4      | 1.2         | .5    |
| Federal Bureau of Investigation .....              | 10.9        | 36.8        | 34.8  | 10.9    | 36.8        | 34.8  |
| Immigration & Naturalization Service .....         | .4          | .4          | .4    | .4      | .4          | .4    |
| Office of Justice Programs .....                   | 40.5        | 37.8        | 53.2  | 31.5    | 33.8        | 53.3  |
| Department of Labor, total .....                   | 53.7        | 46.5        | 42.9  | 51.7    | 48.1        | 45.7  |
| Bureau of Labor Statistics .....                   | 13.1        | 13.3        | 12.6  | 13.1    | 13.3        | 12.6  |
| Employment & Training Administration .....         | 25.6        | 20.8        | 17.3  | 23.1    | 23.4        | 21.1  |
| Occupational Safety & Health Administration .....  | 4.4         | 3.2         | 3.5   | 4.3     | 3.1         | 3.6   |
| Office of the Secretary .....                      | 6.3         | 6.4         | 6.5   | 6.2     | 5.4         | 5.4   |
| Pension Benefit Guaranty Corporation .....         | .8          | .6          | .7    | 1.4     | .6          | .7    |
| Pension & Welfare Benefits Administration .....    | 3.6         | 2.3         | 2.3   | 3.6     | 2.3         | 2.3   |
| Department of State .....                          | 5.0         | 4.3         | 4.3   | 5.0     | 4.3         | 4.3   |
| Department of Transportation, total .....          | 755.8       | 670.5       | 728.2 | 661.4   | 551.1       | 864.2 |
| Coast Guard .....                                  | 20.2        | 20.6        | 20.3  | 21.1    | 24.1        | 24.5  |
| Federal Aviation Administration .....              | 310.1       | 238.2       | 240.9 | 270.8   | 277.6       | 260.9 |
| Federal Highway Administration .....               | 315.6       | 308.6       | 363.4 | 260.6   | 133.5       | 456.9 |
| Federal Railroad Administration .....              | 30.1        | 34.5        | 27.6  | 22.8    | 37.1        | 32.3  |
| Federal Transit Administration .....               | 28.7        | 16.0        | 14.6  | 33.4    | 27.7        | 22.1  |
| Maritime Administration .....                      | 2.5         | .0          | 2.0   | 2.3     | .3          | 1.8   |
| National Highway Traffic Safety Admin .....        | 39.7        | 38.2        | 45.7  | 41.4    | 39.2        | 51.8  |
| Office of the Secretary .....                      | 3.9         | 2.9         | 2.8   | 4.0     | 2.8         | 2.8   |
| Research & Special Programs Administration .....   | 5.0         | 11.5        | 10.9  | 4.9     | 8.8         | 11.2  |
| Department of the Treasury, total .....            | 61.5        | 63.8        | 64.5  | 61.5    | 63.8        | 64.2  |
| Bureau of Engraving & Printing .....               | 1.8         | 2.2         | 2.0   | 1.8     | 2.2         | 2.0   |
| Internal Revenue Service .....                     | 49.7        | 50.6        | 54.3  | 49.7    | 50.6        | 54.3  |
| Office of Thrift Supervision .....                 | .6          | .5          | .6    | .6      | .5          | .6    |
| United States Customs Service .....                | 8.6         | 9.6         | 6.5   | 8.6     | 9.6         | 6.5   |
| United States Mint .....                           | .3          | .2          | .4    | .3      | .2          | .1    |
| United States Secret Service <sup>13</sup> .....   | .6          | .6          | .6    | .6      | .6          | .6    |
| Department of Veterans Affairs .....               | 245.1       | 279.8       | 262.3 | 258.3   | 259.1       | 261.2 |

See explanatory information, if any, and SOURCE at end of table.

**Table C-3. Federal funds for research and development and for R&D plant, by agency:  
fiscal years 1995, 1996, and 1997**

[Dollars in millions]

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| Agency and subdivision                                | Obligations |             |         | Outlays |             |         |
|---|-------------|-------------|---------|---------|-------------|---------|
|   | 1995        | Preliminary |         | 1995    | Preliminary |         |
|   |             | 1996        | 1997    |         | 1996        | 1997    |
| Other agencies:                                       |             |             |         |         |             |         |
| Advisory Comm on Intergovernmental Relations .....    | 1.4         | 1.4         | .0      | 1.4     | 1.4         | .0      |
| Appalachian Regional Commission .....                 | .9          | .9          | .9      | .9      | .9          | .9      |
| Consumer Product Safety Commission .....              | .4          | -           | .0      | .4      | .1          | -       |
| Environmental Protection Agency .....                 | 556.3       | 461.9       | 585.7   | 495.5   | 422.3       | 523.8   |
| Federal Communications Commission .....               | 2.3         | 2.8         | 2.7     | 2.3     | 2.8         | 2.7     |
| Federal Trade Commission .....                        | .6          | 1.0         | 1.0     | .6      | 1.0         | 1.0     |
| General Services Administration .....                 | .1          | .2          | .0      | 1.3     | 1.2         | 1.1     |
| International Development Cooperation                 |             |             |         |         |             |         |
| Agency, total .....                                   | 302.5       | 246.5       | 186.8   | 256.8   | 277.7       | 244.4   |
| Agency for International Development .....            | 302.5       | 246.5       | 186.8   | 256.8   | 277.7       | 244.4   |
| Library of Congress .....                             | 10.2        | 8.3         | 9.1     | 7.7     | 11.0        | 8.3     |
| National Aeronautics & Space Administration .....     | 9,639.7     | 9,946.2     | 9,519.0 | 9,116.2 | 10,074.2    | 9,839.3 |
| National Archives & Records Administration .....      | .1          | .1          | .1      | .1      | .1          | .1      |
| National Science Foundation .....                     | 2,438.9     | 2,360.5     | 2,479.2 | 1,977.0 | 2,261.0     | 2,433.0 |
| Nuclear Regulatory Commission .....                   | 88.2        | 59.2        | 59.0    | 88.8    | 66.4        | 59.1    |
| Smithsonian Institution .....                         | 129.0       | 130.4       | 141.8   | 125.0   | 126.0       | 137.0   |
| Social Security Administration <sup>10</sup> .....    | .0          | 8.3         | 27.7    | .0      | 8.3         | 27.7    |
| Tennessee Valley Authority .....                      | 94.1        | 104.4       | 77.0    | 94.1    | 104.4       | 77.0    |
| United States Arms Control & Disarmament Agency ..... | 1.1         | .5          | 1.0     | 1.1     | .5          | 1.0     |
| United States Information Agency .....                | .3          | .2          | .1      | .3      | .2          | .1      |
| United States International Trade Commission .....    | 12.2        | 12.7        | 12.5    | 12.2    | 12.7        | 12.5    |

- 1 The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.
- 2 The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.
- 3 The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.
- 4 The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.
- 5 This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.
- 6 The Department of the Army, Civil functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.
- 7 This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
- 8 Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.
- 9 Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.
- 10 As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.
- 11 As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.
- 12 The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.
- 13 The United States Secret Service was formerly listed as the Office of Protective Research.

**NOTES:** Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal Funds Survey, refer to appendix A.

**KEY:** - = Amount less than 50 thousand dollars

**SOURCE:** National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1995, 1996, and 1997